

## ABSTRACT

An integrated circuit inverter controller that includes at least one input pin that is configured to receive two or more input signals. The input pin may be multiplexed so that the appropriate input signal is directed to appropriate circuitry within the controller to support two or more functions of the controller. Alternatively, the input signals may be present in differing time periods so that a single pin can support two or more functions. Multifunctional or multitasked pins reduce the overall pin count of the inverter controller.